

FIG. 2

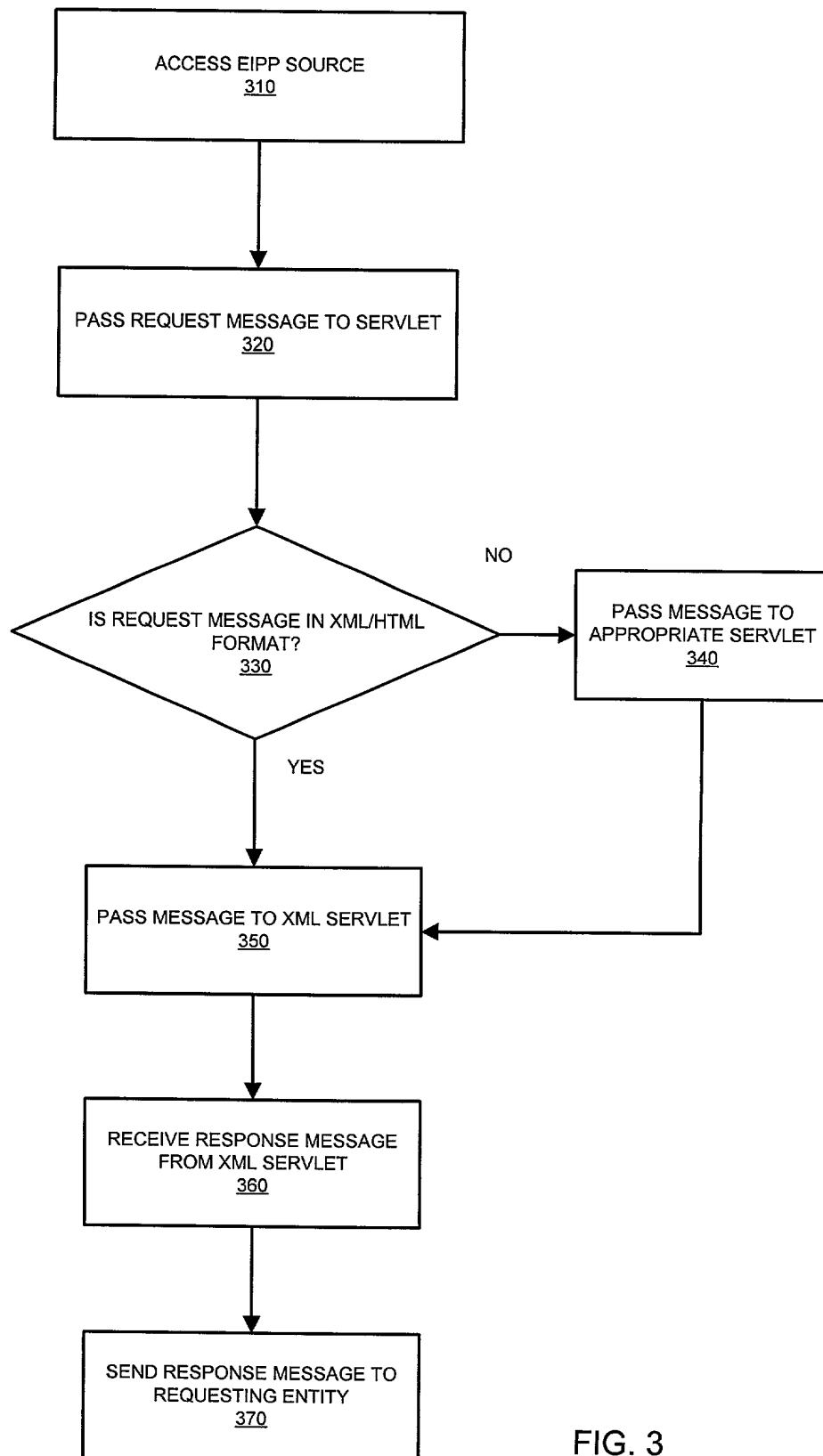


FIG. 3

400A

## AUTHORIZATION OF THE USER

### Request

*The XML message:*

<?xml version="1.0" standalone="no" encoding="UTF-8"?>  
<BXMESSAGE VERSION="1.0">  
    <BXTRANSPORT/>  
    <BXMESSAGEHEADER>  
        <REQUEST RESPONSEREQUIRED="YES"/>  
        <EVENT>AUTHENTICATION</EVENT>  
    </BXMESSAGEHEADER>  
    <BXMESSAGEBODY>  
        <USER\_NAME>...</USER\_NAME>  
        <PASSWORD>...</PASSWORD>  
        <BILLER\_ID>...</BILLER\_ID>  
        <TRANSFORMATION\_NAME>...</TRANSFORMATION\_NAME>  
    </BXMESSAGEBODY>  
</BXMESSAGE>

405A

410A

FIG. 4A

*The DTD :*

```
<?xml version="1.0"?>
<!ELEMENT BXMESSAGE      (BXTRANSPORT, BXMESSAGEHEADER,
BXMESSAGEBODY)>
<!ATTLIST BXMESSAGE VERSION    (1.0) #IMPLIED>
<!ELEMENT BXTRANSPORT    EMPTY>
<!ELEMENT BXMESSAGEHEADER (REQUEST, EVENT)>
<!ELEMENT REQUEST    EMPTY>
<!ATTLIST REQUEST RESPONSEREQUIRED    (YES) #IMPLIED>
<!ELEMENT EVENT        (#PCDATA)>
<!ELEMENT BXMESSAGEBODY(USER_NAME, PASSWORD, BILLER_ID,
TRANSFORMATION_NAME)>
<!ELEMENT USER_NAME    (#PCDATA)>
<!ELEMENT PASSWORD (#PCDATA)>
<!ELEMENT BILLER_ID    (#PCDATA)>
<!ELEMENT TRANSFORMATION_NAME    (#PCDATA)>
```

FIG. 4B

## Response

*The XML message:*

```
<?xml version="1.0" standalone="no"?>
<BXMESSAGE VERSION="1.0">
  <BXTRANSPORT/>
  <BXMESSAGEHEADER>
    <RESPONSE TYPE="AUTHORIZATION"/>
  </BXMESSAGEHEADER>
  <BXMESSAGEBODY>
    <AUTHORIZED_TOKEN>...</AUTHORIZED_TOKEN>
  </BXMESSAGEBODY>
</BXMESSAGE>
```

*The DTD :*

```
<?xml version="1.0"?>
<!ELEMENT BXMESSAGE      (BXTRANSPORT, BXMESSAGEHEADER,
BXMESSAGEBODY)>
<!ATTLIST BXMESSAGE VERSION    (1.0) #IMPLIED>
<!ELEMENT BXTRANSPORT    EMPTY>
<!ELEMENT BXMESSAGEHEADER (RESPONSE)>
<!ELEMENT RESPONSE    EMPTY>
<!ATTLIST RESPONSE TYPE    (AUTHORIZATION) #IMPLIED>
<!ELEMENT BXMESSAGEBODY(AUTHORIZED_TOKEN)>
<!ELEMENT AUTHORIZED_TOKEN    (#PCDATA)>
```

FIG. 4C

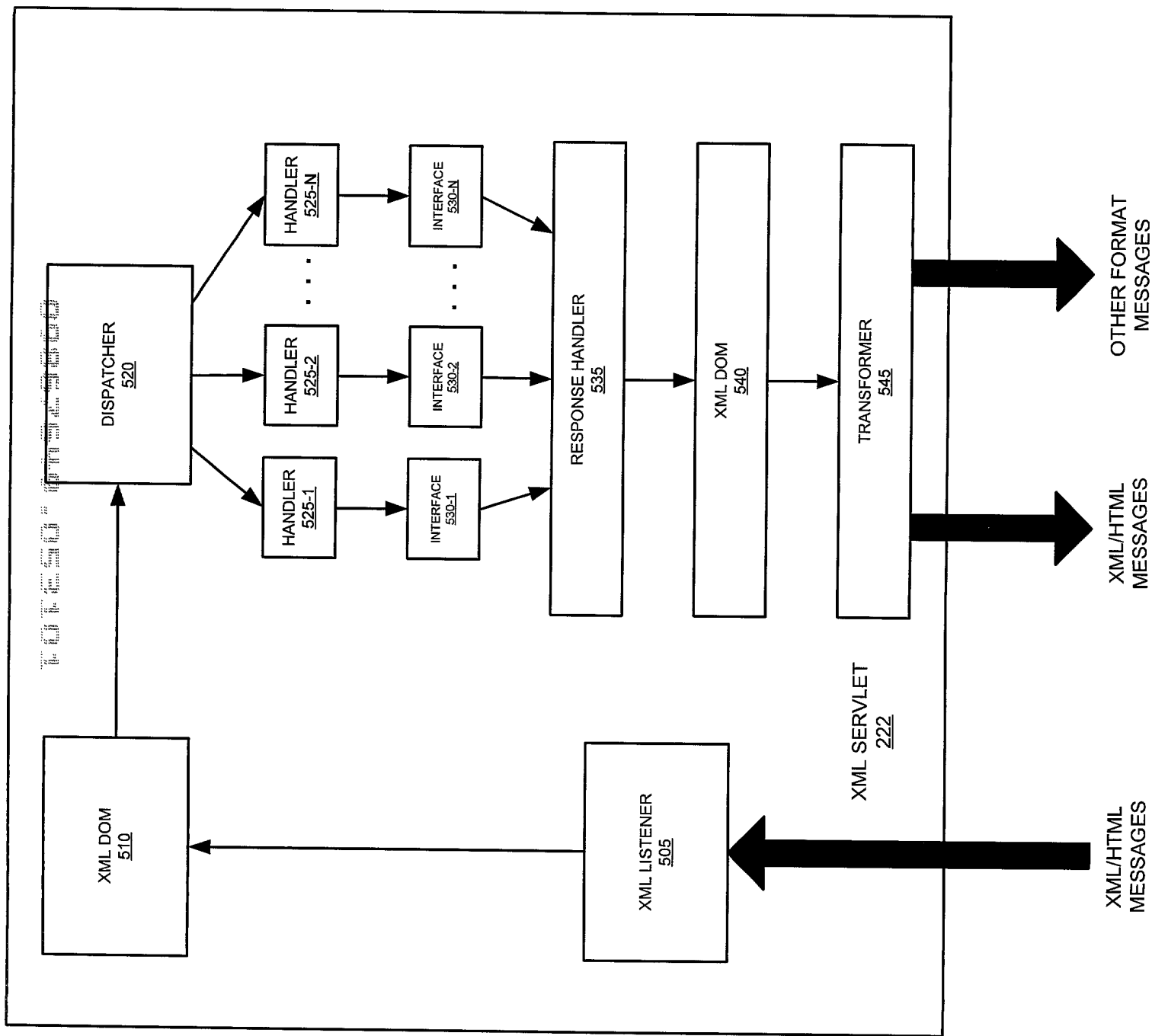


FIG. 5

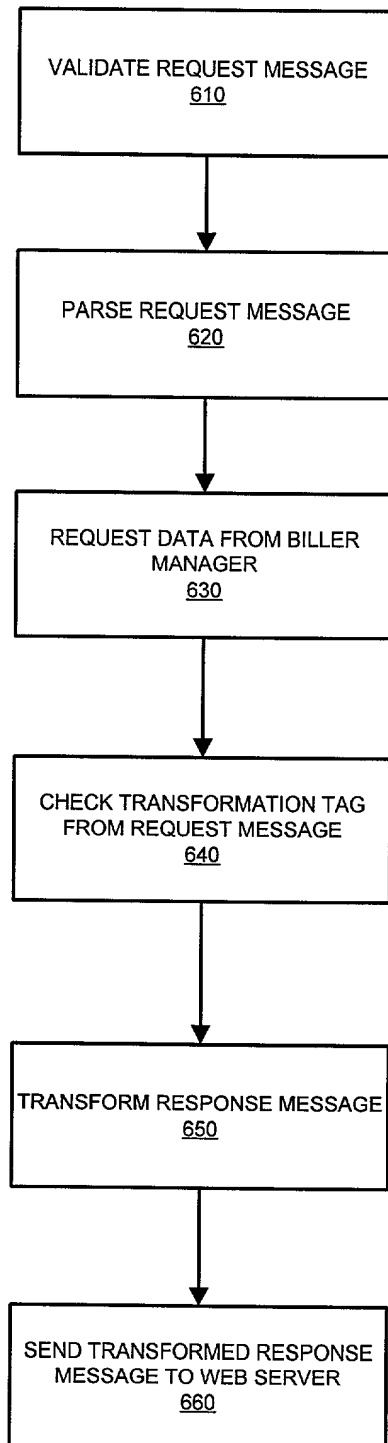


FIG. 6